

## **Fireproof polystyrene foam, used for insulation e.g. in buildings, cars or furniture, comprises a mixture of styrene polymer, phenolic resin and expandable graphite**

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
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**Cited documents:**

 DE1090853 (B)

 US5721281 (A)

 US5719199 (A)

 US5650448 (A)

**Abstract of DE 19910257 (A1)**

Fire-resistant polystyrene-based foam comprises a mixture of (A) 90-10 wt% styrene polymer (PS) and (B) 10-90 wt% phenolic resin, with the addition of (C) 5-50 wt% expandable graphite (based on mixture A + B). Independent claims are also included for (a) a process for the production of PS particle mouldings by making a mixture of phenolic resin, hardener and blowing agent and/or other conventional additives, mixing this with unexpanded PS beads, mixing the phenolic resin-coated or -wetted beads with expandable graphite (C), introducing the mixture into a mould and sintering by the standard steam shock method; (b) an alternative process involving mixing PS beads with (C), combining the coated beads with the resin/hardener/blowing agent mixture, curing the phenolic resin in a mould and sintering as in (a).

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